2 40 CFR Ch. I (7-1-08 Edition)

Pt. 53, Subpt. C, Table C-2

	Concentration range, parts per million	Simult	Maximum			
Pollutant		1-hr		24-hr		discrepancy specification,
		First set	Second set	First set	Second set	parts per mil- lion
	Med 0.10 to 0.20 High 0.25 to 0.35			2 2	3 2	.03 .03
	Total			7	8	

[72 FR 32203, June 12, 2007]

Table C–2 to Subpart C of Part 53—Sequence of Test Measurements

Measurement	Concentra	tion range	Measurement	Concentration range	
	First set	Second set	Measurement	First set	Second set
1	Low High Medium High Low Medium Low Medium Medium High	Low. High. Medium. Low. Medium. Low.	10		Low. Medium. High. Medium. High. Low. Medium. Low. Medium. Low. High.

Table C–3 to Subpart C of Part 53—Test Specifications for Pb Methods

0.5–4.0	Maximum analytical accuracy, percent	±5 ±20
	0.5–4.0	3.1

Table C-4 to Subpart C of Part 53—Test Specifications for $PM_{10},\,PM_{2.5}$ and $PM_{10-2.5}$ Candidate Equivalent Methods

Specification	PM ₁₀	PM _{2.5}			PM _{10-2.5}	
	PIVI ₁₀	Class I	Class II	Class III	Class II	Class III
Acceptable concentration range (R _i), µg/m³.	15–300	3–200	3–200	3–200	3–200	3–200
Minimum number of test sites.	2	1	2	4	2	4
Minimum number of can- didate method samplers or analyzers per site.	3	3	31	31	31	31
Number of reference method samplers per site. Minimum number of acceptable sample sets per site for PM ₁₀ methods:	3	3	31	31	31	31
$R_i < 60 \mu g/m^3 \dots$	3					
R _i > 60 μg/m ³	3					
Total	10					
Minimum number of acceptable sample sets per						
site for PM _{2.5} and PM ₁₀ – _{2.5} candidate equivalent methods:						
$R_j < 30 \mu g/m^3$ for 24- hr or $R_j < 20 \mu g/m^3$ for 48-hr samples.		3				
$R_j > 30 \mu g/m^3$ for 24- hr or $R_j > 20 \mu g/m^3$ for 48-hr samples.	3					

Environmental Protection Agency

Pt. 53, Subpt. C, Table C-5

Specification	PM ₁₀	PM _{2.5}			PM _{10-2.5}	
		Class I	Class II	Class III	Class II	Class III
Each season	10 10 5 μg/m ³	23 23 2 μg/m ³	23 23 (46 for two- season sites) 10% ²	23 23 10% ²	23 23 (46 for two- season sites) 10% ²	10%2
erence method measure- ments, P _{RJ} or RP _{RJ} , re- spectively; RP for Class II or III PM _{2.5} or PM ₁₀₋ 2.5, maximum.	or 7%.	or 5%.				
Precision of PM _{2.5} or PM _{10-2.5} candidate method, CP, each site.	10%2	15%2	15%2	15%2		
Slope of regression relationship.	1 ± 0.10	1 ± 0.05	1 ± 0.10	1 ± 0.10	1 ± 0.10	1 ± 0.12
Intercept of regression relationship, µg/m³.	0 ± 5	0 ± 1	Between: 13.55 - (15.05 × slope), but not less than - 1.5; and 16.56 - (15.05 × slope), but not more than +1.5	Between: 15.05 - (17.32 × slope), but not less than - 2.0; and 15.05 - (13.20 × slope), but not more than +2.0	Between: 62.05 - (70.5 × slope), but not less than - 3.5; and 78.95 - (70.5 × slope), but not more than +3.5	Between: 70.50 – (82.93 × slope), but not less than – 7.0; and 70.50 – (61.16 × slope), but not more than +7.0
Correlation of reference method and candidate method measurements.	≥ 0.97	≥ 0.97	$\geq 0.93 \\ -\text{for CCV} \leq 0.4; \geq 0.85 + 0.2 \\ \times \\ \text{CCV} \\ -\text{for 0.4} \leq \\ \text{CCV} \leq 0.5; \geq 0.95 \\ -\text{for CCV} \geq 0.5$			

¹ Some missing daily measurement values may be permitted; see test procedure. ² Calculated as the root mean square over all measurement sets.

[72 FR 32203, June 12, 2007]

TABLE C-5 TO SUBPART C OF PART 53—SUMMARY OF COMPARABILITY FIELD TESTING Campaign Site and Seasonal Requirements for Class II and III FEMs for $PM_{10-2.5}$ AND $PM_{2.5}$

Candidate method	Test site	A	В	С	D
PM _{2.5}	Test site location area.	Los Angeles basin or California Central Valley.	Western city such as Denver, Salt Lake City, or Al- buguerque.	Midwestern city	Northeastern or mid-Atlantic city.
	Test site characteristics.	Relatively high PM _{2.5} , nitrates, and semi-volatile organic pollutants.	Cold weather, higher elevation, winds, and dust.	Substantial tem- perature vari- ation, high ni- trates, wintertime conditions.	High sulfate and high relative humidity.
	Class III Field test campaigns (Total: 5).	Winter and sum- mer.	Winter only	Winter only	Summer only.
	Class II Field test campaigns (Total: 2).		Site C or D, any season.		
$PM_{10-2.5}$	Test site location area.	Los Angeles basin or California Central Valley.	Western city such as Las Vegas or Phoenix.	Midwestern city	Large city east of the Mississippi River.
	Test site characteristics.	Relatively high PM _{2.5} , nitrates, and semi-volatile organic pollutants.	High PM _{10-2.5} to PM _{2.5} ratio, wind-blown dust.	Substantial tem- perature vari- ation, high ni- trates, wintertime conditions.	High sulfate and high relative humidity.
	Class III Field test campaigns (Total: 5).	Winter and sum- mer.	Winter only	Winter only	Summer only.